

INFORMATION DISCLOSURE STATEMENT

Complete if known

Application Number: 09/936,975

Filing Date: December 27, 2001

First Named Inventor: JOHN CORRIE et al.

Group Art Unit: 1635 1626

Examiner Name: Not Yet Assigned

Attorney Docket Number: 0380-P02671US0

SHEET 1 OF 4

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UNITED STATES PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
GS	A1	4,210,590	07/01/1980	Bruce E. Maryanoff et al.
GS	A2	6,268,389 B1	07/31/2001	Franz Esser et al.

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT
GS	B1	WO 86/00527 ✓	WO	01/30/1986	DANA-FARBER CANCER INSTITUTE, INC.

OTHER PRIOR ART - NON-PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
*	C1	✓ GOISSIS, G. et al., "Synthesis of Protected Peptide Acids and Esters by Photosolvolytic of 1-peptidyl-5-bromo-7-nitroindolines"; Proc. Am. Peptide Symp., 5: 559-61 (1977)
	C2	✓ Yeda Research and Development Co., Ltd., "Reversible blocking of acyl groups during organic synthesis using 7-nitroindoline derivatives as blocking agents"; Chem. Abstracts, Ab. No. 181004x, 92(21): 637 (1980)
	C3	✓ PASS, S. et al., "Racemization-Free Photochemical Coupling of Peptide Segments"; J. Am. Chem. Soc. 103: 7674-7675 (1981)
	C4	✓ ADAMS, S.R. et al., "Biologically Useful Chelators That Take Up Ca ²⁺ upon Illumination"; J. Am. Chem. Soc. 111: 7957-7968 (1989)
	C5	✓ PAPAGEORGIOU, G. et al., "Photorelease of Carboxylic Acids from 1-Acyl-7-nitroindolines in Aqueous Solution: Rapid and Efficient Photorelease of L-Glutamate"; J. Am. Chem. Soc. 121: 6503-6504 (1999)
	C6	✓ CORRIE, J.E.T. et al., "Caged Nucleotides and Neurotransmitters"; Bioorganic Phytochemistry, Volume 2: Biological Applications of Photochemical Switches; Morrison, H. (Ed.), Chapter 5: 243-305 (John Wiley & Sons, 1993)
*	C7	✓ ADAMS, S.R. et al., "Controlling Cell Chemistry with Caged Compounds"; Annu. Rev. Physiol. 55: 755-784 (1993)

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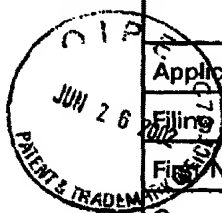
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* Reference one missing.

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SHEET 2 OF 4

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C9	PAPAGEORGIOU, G. et al., "Synthetic and Photochemical Studies of <i>N</i> -Arenesulfonyl Amino Acids"; Tetrahedron 55: 237-254 (1999)
C10	GIVENS, R.S. et al., "New Photoactivated Protecting Groups. 7. <i>p</i> -Hydroxyphenacyl: A Phototrigger for Excitatory Amino Acids and Peptides"; J. Am. Chem. Soc. 119: 8369-8370 (1997)
✓ C11	FURUTA, T. et al., "Brominated 7-hydroxycoumarin-4-ylmethyls: Photolabile protecting groups with biologically useful cross-sections for two photon photolysis"; Proc. Natl. Acad. Sci. USA 96: 1193-1200 (1999)
✓ C12	PAPAGEORGIOU, G. et al., "Synthesis and Properties of Carbamoyl Derivatives of Photolabile Benzoin"; Tetrahedron 53(11): 3917-3932 (1997)
✓ C13	AMIT, B. et al., "Light-Sensitive Amides. The Photosolvolysis of Substituted 1-Acyl-7-nitroindolines"; J. Am. Chem. Soc. 98: 843-844 (1976)
✓ C14	McKILLOP, A. et al., "Thallium in Organic Synthesis. XXVII. A Simple One-Step Conversion of Acetophenones into Methyl Phenylacetates Using Thallium(III) Nitrate (TTN)"; J. Am. Chem. Soc. 93: 4919-4920 (1971)
✓ C15	MORTENSEN, M.B. et al., "Improved Preparation of Some Nitroindolines"; Org. Prep. Proced. Int. (OPPI Briefs) 28(1): 123-125 (1996)
✓ C16	CARPINO, L.A. et al., "Peptide Synthesis via Amino Acid Halides"; Acc. Chem. Res. 29(6): 268-274 (1996)
✓ C17	GALL, W.G. et al., "Synthesis of 7-Substituted Indoline Derivatives"; J. Org. Chem. 20: 1538-1544 (1955)
✓ C18	ZUMAN, P. et al., "Addition, Reduction, and Oxidation Reactions of Nitrosobenzene"; Chem. Rev., 94: 1621-1641 (1994)
✓ C19	BARTH, A. et al., "Time-Resolved Infrared Spectroscopy of Intermediates and Products from Photolysis of 1-(2-Nitrophenyl)ethyl Phosphates: Reaction of the 2-Nitrosoacetophenone Byproduct with Thiols"; J. Am. Chem. Soc., 119: 4149-4159 (1997)
✓ C20	WAN, P. et al., "Photoredox chemistry of nitrobenzyl alcohols in aqueous solution. Acid and base catalysis of reaction"; Can. J. Chem., 64: 2076-2086 (1986)
* ✓ C21	WAN, P. et al. "Structure and Mechanism in the Photo-Retro-Aldol Type Reactions of Nitrobenzyl Derivatives. Photochemical Heterolytic Cleavage of C-C Bonds"; J. Am. Chem. Soc., 110(13): 4336-4345 (1988)

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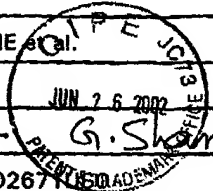
<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: right;">JUN 28 2002 TECH CENTER 1600/2900</p>	<i>Complete if known</i>	
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SHEET 3 OF 4		Attorney Docket Number: 0380-PO2671000

*	C22 ✓	WALKER, J.W., et al. "Photolabile 1-(2-Nitrophenyl)ethyl Phosphate Esters of Adenine Nucleotide Analogues. Synthesis and Mechanism of Photolysis"; J. Am. Chem. Soc., 110(21): 7170-7177 (1988)
	C23 ✓	AMIT, B. et al., "Light-sensitive Amides. Photocleavage of N-Acyl-1,2,3,4-tetrahydro-8-nitroquinolines to give Free Carboxylic Acids"; J. Chem. Soc., Perkin Trans. I, 57-63 (1976)
	C24 ✓	KAPLAN, J.H. et al., "Rapid Photolytic Release of Adenosine 5'-Triphosphate from a Protected Analogue: Utilization by the Na:K Pump of Human Red Blood Cell Ghosts"; Biochemistry, 17(10): 1929-1935 (1978)
	C25 ✓	HAMILL, O.P. et al., "Improved Patch-Clamp Techniques for High-Resolution Current Recording from Cells and Cell-Free Membrane Patches"; Pflügers Arch., 391: 85-100 (1981)
	C26 ✓	RAPP, G. et al., "A low cost high intensity flash device for photolysis experiments"; Pflügers Arch., 411: 200-203 (1988)
	C27 ✓	KHODAKHAH, K. et al., "Fast activation and inactivation of inositol trisphosphate-evoked Ca ²⁺ release in rat cerebellar Purkinje neurones"; J. Physiol., 487.2: 343-358 (1995)
	C28 ✓	CRABB, T.A. et al., "Microbiological Transformations, Part 6. Microbiological Transformations of Acyl Derivatives of Indoline, 1,2,3,4-Tetrahydroquinoline, 1,2,3,4-Tetrahydroisoquinoline and 2,3,4,5-Tetrahydro-1H-1-benzazepine with the Fungus <i>Cunninghamella elegans</i> "; J. Chem. Soc. Perkin Trans. I, 1381-1385 (1985)
	C29 ✓	MONRO, A.M. et al., "The Conformation of the Amide Group in N-Acyl-indolines and -1,2,3,4-tetrahydroquinolines"; J. Chem. Soc. (B), 1227-1230 (1971)
	C30 ✓	TERENTEV, A.P. et al., "Introduction of Substituents in the Benzene Ring of Indole"; J. Gen. Chem. USSR, 29: 2835-2841 (1959)
	C31 ✓	CORRIE, J.E.T. et al. "Synthesis and Absolute Stereochemistry of the Two Diastereoisomers of P ^o -1-(2-Nitrophenyl)ethyl Adenosine Triphosphate ('Caged' ATP)"; J. Chem. Soc. Perkin Trans. I, 1015-1019 (1992)
	C32 ✓	KAWASE, M. et al., "Silica Gel Assisted Reductive Cyclization of 2-Nitro- α -piperidinostyrenes, Derived from 2-Nitrotoluenes, to Indoles"; J. Heterocyclic Chem., 24: 1499-1501 (1987)
	C33 ✓	BUCHANAN, J.G. et al., "Synthesis of the Indole Nucleoside Antibiotics Neosidomycin and SF-2140"; J. Chem. Soc. Perkin Trans. I, 1417-1426 (1994)
✓	C34 ✓	GANGJEE, A. et al., "Synthesis and Biological Evaluation of Nonclassical 2,4-Diamino-5-methylpyrido[2,3-d]pyrimidines with Novel Side Chain Substituents as Potential Inhibitors of Dihydrofolate Reductases"; J. Med. Chem., 40: 479-485 (1997)
*	C35 ✓	WIELAND, T. et al., "Synthese einiger Methoxy-oxindole und -indoline"; Chem. Ber., 96: 253-259 (1963) [English translation of Abstract attached]

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Attorney Docket Number: 0380-P0267		
SHEET 4 OF 4		

★	C36 ✓	KRUSE, L.I., "Synthesis of 4-Substituted Indoles from <i>p</i> -Nitrotoluenes"; Heterocycles, 16(7): 1119-1124 (1981)
↓	C37 ✓	CORRIE, J.E.T. et al., "Synthesis and evaluation of photolabile sulfonamides as potential reagents for rapid photorelease of neuroactive amines"; J. Chem. Soc., Perkin Trans. I, 1583-1592 (1996)
★	C38	PAPAGEORGIOU, G. et al., "Effects of Aromatic Substituents on the Photocleavage of 1-Acyl-7-nitroindolines"; Tetrahedron 56: 8197-8205 (2000)

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